US ERA ARCHIVE DOCUMENT

	Shaughnessy Number: 128857
	Date out of EAB: SEP 27 1988
To:	Lois Rossi/Larry Schnaubelt Product Manager 21 Registration Division (TS 767C)
From:	Environmental Fate and Ground Water Branch Environmental Fate and Effects Division (TS 769C)
Thru:	Paul F. Schuda, Chief Fred Franch/EFED (TS 769C)
Attached,	please find the EAB review of
Reg./File	#: 707-ERN, -ERR, -ERE, -EER, -ROG, -ERG
Chemical I	Name: Mvclobutanil
Type Produ	uct: Fungicide
Company Na	ame: Rohm and Haas
Purpose:	response to EFGWB comments on terrestrial field dissipation on
	parent and 1,2,4-triazole metabolite
Date Rece	ived: 9/13/88 Action Code: 111,111,111,1126,126
Date Comp	leted: EAB #(s): 81017,-18,-19,-20,-21,-22
Monitoring	g Study Requested: Total Reviewing Time: 2.0 days
Monitoring	g Study Volunteered:
	<u> </u>
Deferrals	to:Ecological Effects Branch
	x Dietary Exposure Branch
	x_Toxicology Branch

1. CHEMICAL:

chemical name: | \alpha - butyl - \alpha (4-chlorophenyl) - 1H-1, 2-triazole - 1-propanenitrile

common name: trade name:

Myclobutanil Systhane, Rally

structure:

CI- CH2-N = CH3-N = CH

CAS #:

66871-89-0

Shaughnessy #: 128857

2. TEST MATERIAL: n.a.

3. STUDY/ACTION TYPE: request for EUP

4. STUDY IDENTIFICATION: n.a.

5. REVIEWED BY:

Typed Name:

E. Brinson Conerly

Title:

Chemist, Review Section 2

Organization:

EFGWB/EFED/OPP

6. APPROVED BY:

Typed Name:

Emil Regelman

Title:

Supervisory Chemist, Review Section 2

Organization:

EFGWB/EFED/OPP

7. CONCLUSIONS:

EFGWB concurs with granting this EUP. The data base is very nearly complete for full registration, with the exceptions noted below. [See Background section and EBC review of 9/27/88.] The EUP protocol does not propose to generate any environmental fate data.

8. RECOMMENDATIONS:

The applicant may wish to perform a portion of the previously requested field dissipation study during this EUP.

9. BACKGROUND:

The proposed EUP is for the following purposes:

1) to study efficacy of a new formulation type

- 2) to establish use parameters (optimum application rates, timing, and number)
- 3) to gather residue data

NOV / 0 1988

Approximately 288 stone-fruit (apricot, cherry, nectarine, peach, plum, and prune) grower trials, at an average plot size of 2.5 acres, are proposed, to take place from January 1989 to October 1990. This represents a total of 720 acres. The maximum annual usage will be 1008 lb active ingredient (2016 lb over the entire experiment). Sites are proposed in 19 states: AK, GA, LD, LA, MD, MI, NC, NJ, NY, OR, PA, SC, TX, UT, VA, WA, WI, and WV. Application would not exceed 1.4 lb/season (with multiple applications), and would occur from pre-bloom to within 14 days of harvest. A petition for temporary tolerance at 2 ppm has been submitted concurrently.

The EUP is to be done on a product contained in water-soluble pouches. The pouches, representing four percent of the formulation, would decrease the exposure of mixers to the active ingredient, and would not be likely to affect its environmental behavior.

The status of data requirements is as follows:

hydrolysis -- satisfied -- stable at pHs 5, 7, 9
photolysis in water -- satisfied -- stable to photolysis in water -photolysis in soil -- satisfied -- extrapolated t. ca. 143 days -aerobic soil metabolism -- satisfied -- t. 61-71 days -- major product -is 1,2,4-triazole up to ca 15%, with CO₂ and unextractables in
lesser amounts

anaerobic soil metabolism -- satisfied -- resistant to anaerobic metabolism -- no detectable degradation after ca. 60 days

for adsorption, 0.47-4.18 for desorption in five soils: clay loam, sand, silt loam, sandy loam, clay — additional data required re "aged" compound (degradates must be identified and quantified)

* terrestrial field dissipation — a new field dissipation study has been requested by EFCWB as a condition for registration

fish bioaccumulation -- waived, based on low kews for parent and degradates. The compound is not expected to bioaccumulate.

- 10. DISCUSSION OF INDIVIDUAL TESTS OR STUDIES: n.a.
- 11. COMPLETION OF ONE-LINER:

No additional environmental fate data was provided in this submittal.

12. CBI APPENDIX: n.a.